AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Original) A microphone sampling one of a non-audible murmur articulated by a variation in resonance filter characteristics associated with motion of the phonatory organ, the non-audible murmur not involving regular vibration of the vocal cords, the non-audible murmur being a vibration sound generated when an externally non-audible respiratory sound is transmitted through internal soft tissues, a whisper which is audible but is uttered without regularly vibrating the vocal cords, a sound uttered by regularly vibrating the vocal cords and including a low voice or a murmur, and various sounds such as a teeth gnashing sound and a tongue clucking sound,

the microphone being installed on a surface of the skin on the sternocleidomastoid muscle immediately below the mastoid of the skull, that is, in the lower part of the skin behind the auricle.

- 2. (Original) The microphone according to claim 1, comprising a diaphragm installed on the surface of the skin and a sucker that sticks to the diaphragm.
- 3. (Original) The microphone according to claim 1 or 2, which is integrated with a head-installed object such as glasses, a headphone, a supra-aural earphone, a cap, or a helmet which is installed on the human head.
- 4. (Currently Amended) A communication interface system comprising the microphone according to any of claims claim 1 [[to 3]] and a signal processing apparatus that processes a signal sampled through the microphone.

wherein a result of processing by the signal processing apparatus is used for communications.

- 5. (Original) The communication interface system according to claim 4, wherein the signal processing apparatus includes an analog digital converting section that quantizes a signal sampled through the microphone, a processor section that processes a result of the quantization by the analog digital converting section, and a transmission section that transmits a result of the processing by the processor section to an external apparatus.
- 6. (Original) The communication interface system according to claim 4, wherein the signal processing apparatus includes an analog digital converting section that quantizes a signal sampled through the microphone and a transmission section that transmits a result of the quantization by the analog digital converting section to an external apparatus and in that the external apparatus processes the result of the quantization.
- 7. (Original) The communication interface system according to claim 5, wherein the signal processing apparatus includes an analog digital converting section that quantizes a signal sampled through the microphone, a processor section that processes a result of the quantization by the analog digital converting section, and a speech recognition section that executes a speech recognition process on a result of the processing by the processor section.
- 8. (Original) The communication interface system according to claim 7, further comprising a transmission section that transmits a result of the speech recognition by the speech recognition section to an external apparatus.

9. (Original) The communication interface system according to claim 5, wherein an apparatus in a mobile telephone network executes a speech recognition process on the result of the processing by the processor section, the result being transmitted by the transmitting section.

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- 10. (Original) The communication interface system according to claim 5, wherein the signal processing executed by the signal processing apparatus is a modulating process in which the process section modulates the signal into an audible sound.
- 11. (Original) The communication interface system according to claim 10, wherein the modulating process applies a fundamental frequency of the vocal cords to the non-audible murmur to convert the non-audible murmur into an audible sound involving the regular vibration of the vocal cords.
- 12. (Original) The communication interface system according to claim 10, wherein the modulating process converts a spectrum of the non-audible murmur not involving the regular vibration of the vocal cords into a spectrum of an audible sound uttered using the regular vibration of the vocal cords.
- 13. (Original) The communication interface system according to claim 12, wherein the modulating process uses the spectrum of the non-audible murmur and a speech recognition apparatus to recognize phonetic units such as syllables, semi-syllables, phonemes, two-juncture phonemes, and three-juncture phonemes and uses a speech synthesis technique to convert the phonetic units recognized into an audible sound uttered using the regular vibration of the vocal cords.

- 14. (Currently Amended) The communication interface system according to any <u>one</u> of claims 4 to 13, wherein an input gain is controlled in accordance with a magnitude of a dynamic range of a sound sampled through the microphone.
- 15. (Original) The communication interface system according to claim 7 or 8, wherein the speech recognition section appropriately executes speech recognition utilizing an acoustic model of at least one of the non-audible murmur, a whisper which is audible but is uttered without regularly vibrating the vocal cords, a sound uttered by regularly vibrating the vocal cords and including a low voice or a murmur, and various sounds such as a teeth gnashing sound and a tongue clucking sound.
- 16. (New) A signal processing apparatus that processes a signal sampled through the microphone according to claim 1.